HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	11-01-010
Date	APRIL, 2011
Model	2007 - 2009 ELANTRA

Subject
WCS CONNECTOR VINYL COVER INSTALLATION & AIRBAG CONTROL UNIT REPROGRAMMING (CAMPAIGN 099 & CAMPAIGN 100)

CIRCULATE TO:	[ ] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY MGR	[ ] SALES MANAGER

IMPORTANT: DEALERS MUST PERFORM THESE CAMPAIGNS ON ALL AFFECTED VEHICLES WHENEVER AN AFFECTED VEHICLE IS IN THE SHOP FOR ANY MAINTENANCE OR REPAIR.

IMPORTANT: WHEN A VEHICLE ARRIVES AT THE SERVICE DEPARTMENT, ACCESS HYUNDAI MOTOR AMERICA'S "WARRANTY VEHICLE INFORMATION" SCREEN VIA WEBDCS TO IDENTIFY OPEN CAMPAIGNS.

DESCRIPTION:

This bulletin describes two campaign repair procedures. Identify the open campaign(s) for the affected vehicle and conduct the appropriate campaign repairs accordingly.

CAMPAIGN 099:

Campaign 099 provides the procedure to install a protective cover over the Weight Classification System (WCS) wiring connector to prevent contamination from liquid spills. If the connector is contaminated, it may result in airbag warning light illumination.

Vehicles Affected: 2007-2009 Elantra Vehicles produced from July 14, 2006 through November 1, 2008.

CAMPAIGN 100:

The driver's Seat Track Position Sensor (STPS) detects the fore and aft position of the seat to allow the driver's airbag to deploy at the appropriate pressure. In some vehicles, an unstable STPS electric signal may prevent the Airbag Control Unit (ACU) from determining the position of the seat, resulting in airbag warning light illumination. Campaign 100 provides the procedure to reprogram the ACU to repair this condition.

Vehicles Affected: 2007-08 Elantra Vehicles produced from July 14, 2006 through August 29, 2007.

CAMPAIGN 099 : WCS CONNECTOR VINYL COVER INSTALLATION

VEHICLES AFFECTED:

2007-2009 Elantra Vehicles produced from July 14, 2006 through November 1, 2008.

PARTS INFORMATION:

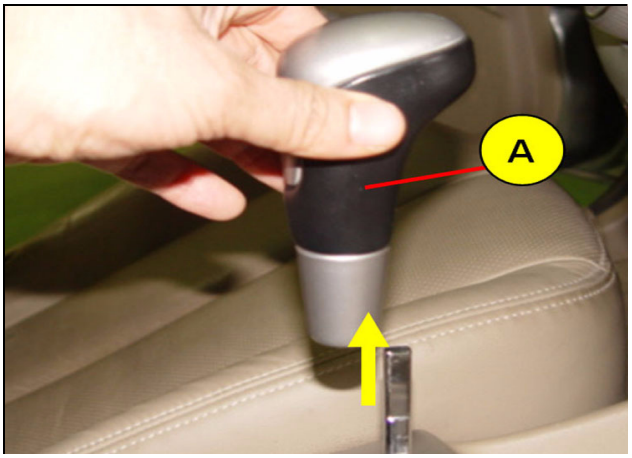
PART NAME	PART NUMBER	REMARKS
Connector Vinyl Cover	91971-2H999	

NOTE: Before conducting the repair procedure, verify the vehicle falls within the production date range as noted above and has an open recall 099.

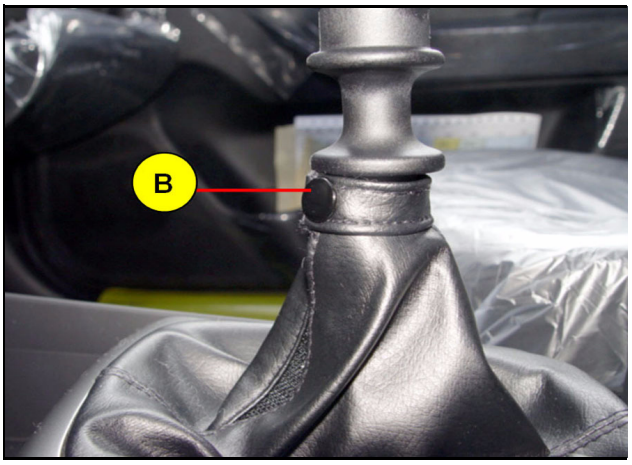
1. The IGNITION SWITCH MUST BE OFF and the KEY MUST BE REMOVED from the ignition switch before beginning this procedure.

2. For automatic transaxles, apply the parking brake and place the shift lever in the Neutral ("N") position.

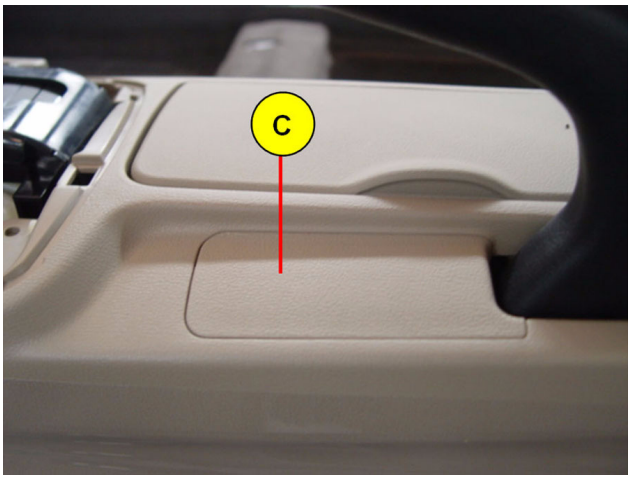
3. Lift and remove the shift knob (A).



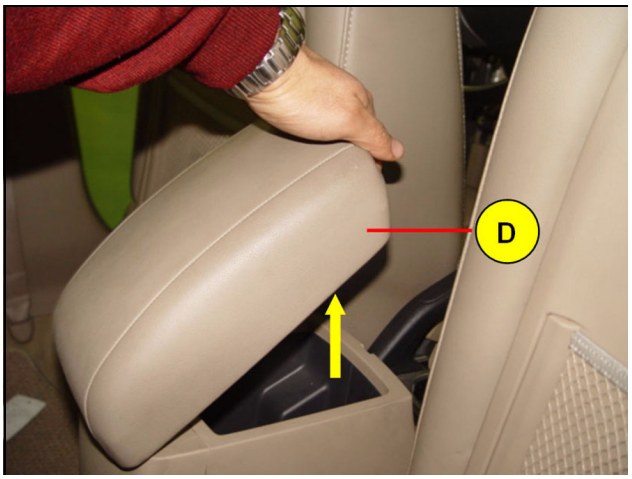
For manual transaxles, apply the parking brake and rotate the shift lever knob (B) counterclockwise to remove.



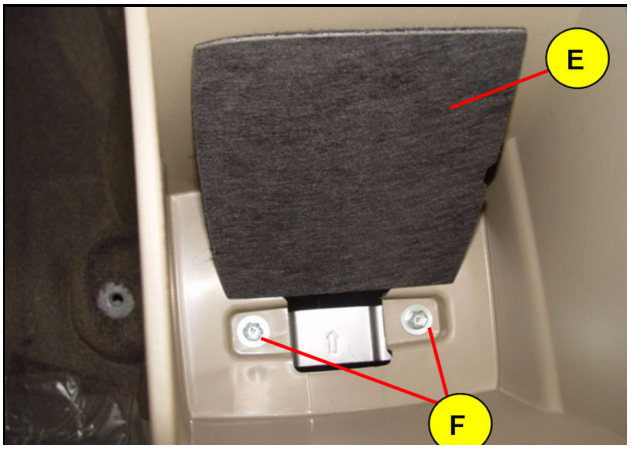
4. With the parking brake in the applied position, remove the parking brake lever cover (C).



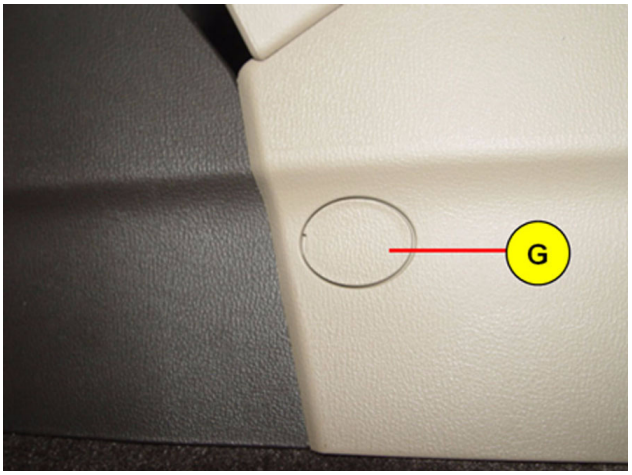
5. Open the center console armrest (D).



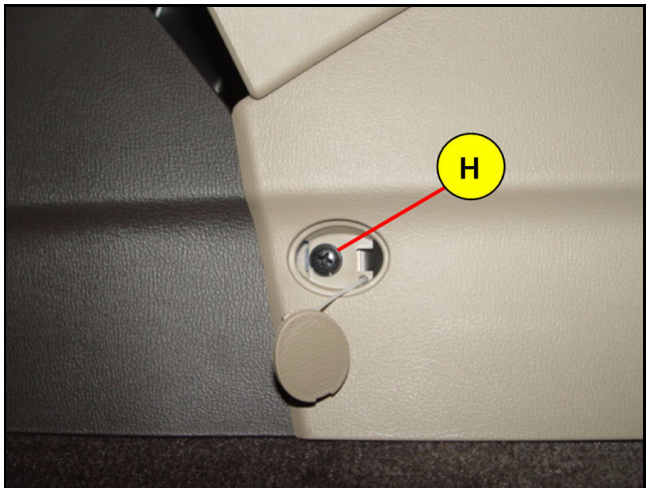
6. Remove the console tray mat (E) and, using a 10mm ratchet, remove the center console mounting nuts (F).



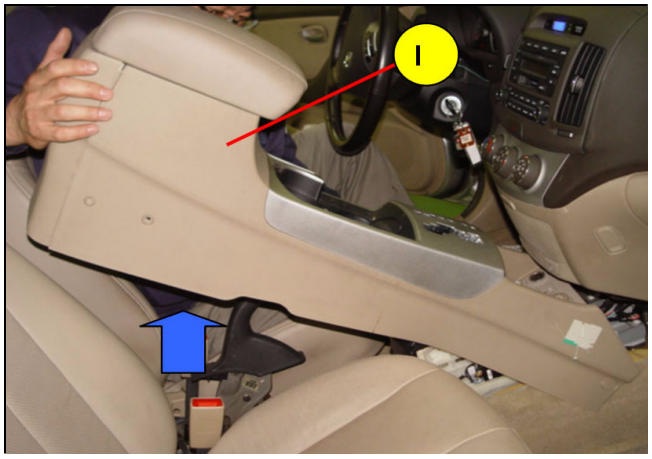
7. Using a small pick, remove the center floor console front mounting screw cover (G).



8. Using a Phillips screwdriver, remove the center console front mounting screw (H). Repeat procedure for the other side.



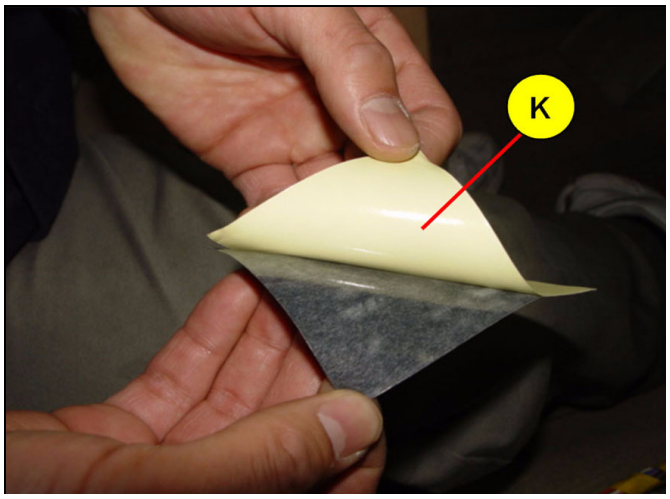
9. Lift from the rear and remove the center console assembly.



10. Locate the Weight Classification System wiring connector (J), which is positioned to the rear of the Airbag Control Unit.

NOTE: This connector is identified as AA11 in the airbag system section of the ETM for the affected vehicles.

11. Remove the backing strip (K) from the adhesive on the vinyl cover.



12. Attach the vinyl cover onto the Weight Classfication System connector as shown in the photo. Use your finger to evenly press down on the vinyl cover.

13. Install all the removed components in reverse order of removal.

CAMPAIGN 100: AIRBAG CONTROL UNIT (ACU) REPROGRAMMING

VEHICLES AFFECTED:

2007-2008 Elantra Vehicles produced from July 14, 2006 through August 29, 2007.

GDS ACU SOFTWARE REPROGRAMMING PROCEDURE:

Important Cautions for Reprogramming:

- **Reprogramming by GDS can only be performed by using the USB cable between a laptop and the VCI; wireless cannot be used for reprogramming.**
- **Make sure the GDS laptop battery indicator at the bottom right of the screen indicates at least 25% battery charge remaining to be able to complete reprogramming; if not, charge the laptop or keep the AC adaptor connected while reprogramming.**
- **Perform reprogramming with the ignition key in the ON position.**
- **Turn off all lights (do not leave headlight switch in auto mode) and all accessories (including heater/air conditioner/blower, radio, heated seat, rear defroster, etc.) to make certain the battery will not be discharged during reprogramming.**
- **Be careful not to disconnect any cables connected to the vehicle during reprogramming.**
- **Do not start the engine during reprogramming.**
- **Do not turn the ignition switch OFF during reprogramming.**

IMPORTANT: Before conducting the update to the vehicle's ACU software, verify the vehicle falls within the production date range as noted on page 7 of this bulletin and has an open recall 100.

1. Connect the GDS VCI module to the vehicle's DLC connector and the USB cable between the VCI and GDS laptop's USB port.

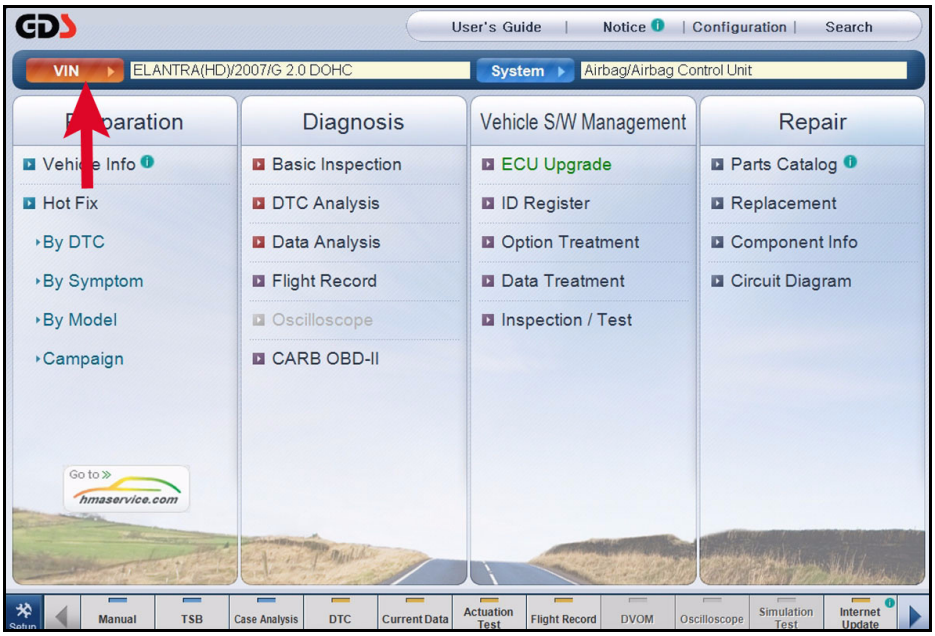
2. Turn on the vehicle ignition. Make sure the green power LED is lit on the VCI; if it is not lit press on the power button of the VCI. Within a few seconds, the top of the GDS screen should indicate **VCI:USB On** in bright green.

3. Make sure the GDS has the latest data by pressing the bottom right **Internet Update** button on the GDS screen. You will get a confirmation on the GDS screen if it is already updated; otherwise the **Download Start** button will be viewable and should be pressed to update the GDS.

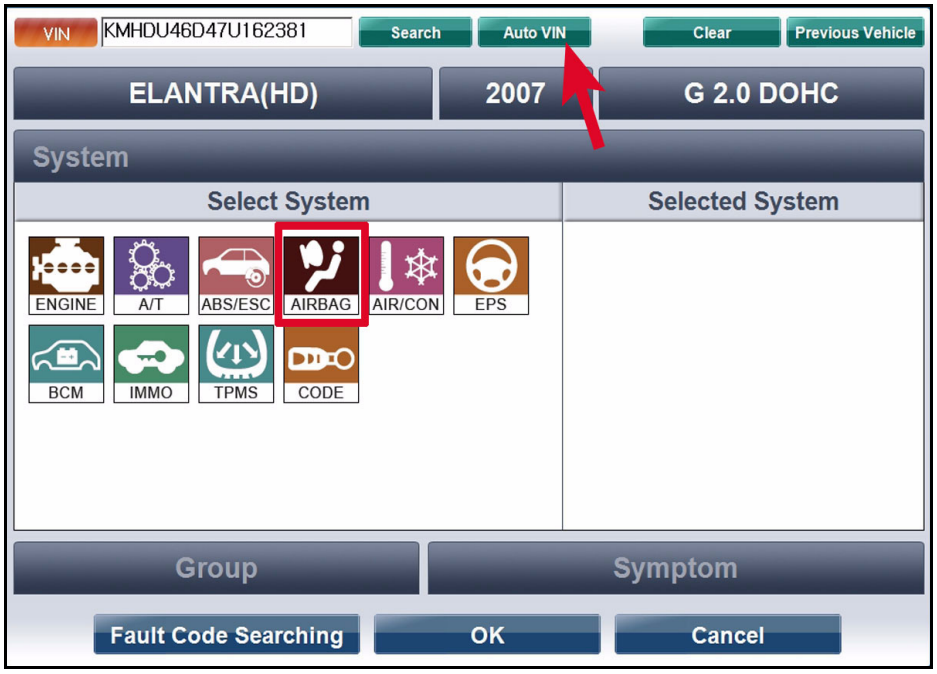
NOTE: You must have an internet connection to GDS to be able to receive any updated data; the bright green "Internet On" should illuminate on top of the screen.

NOTE: If a GDS internet update is available, it could take up to several minutes to download and complete the update.

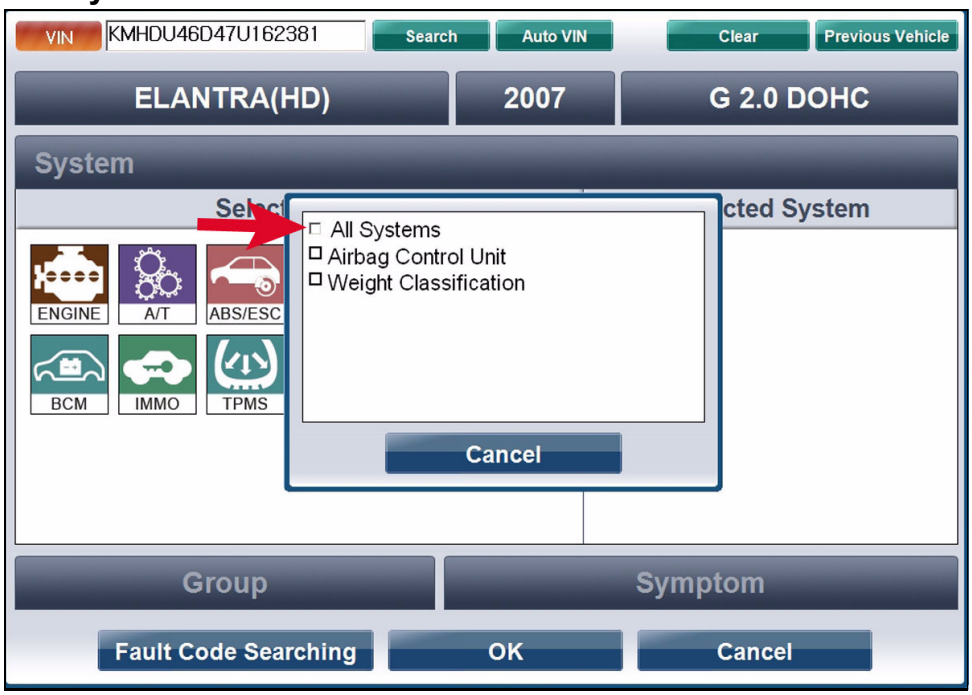
4. Press the **VIN** button at the top of the screen to launch the GDS VIN search screen.



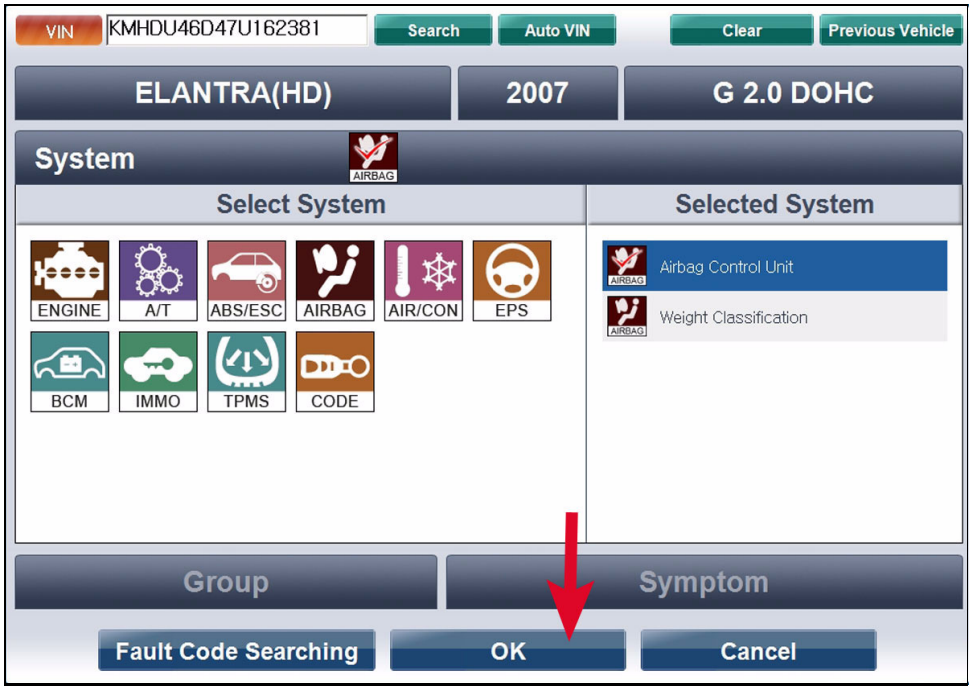
5. Press the **Auto VIN** button to automatically read the vehicle's VIN (or you will need to manually enter vehicle, year, and engine if it does not automatically read this information) then press **Airbag** for system.



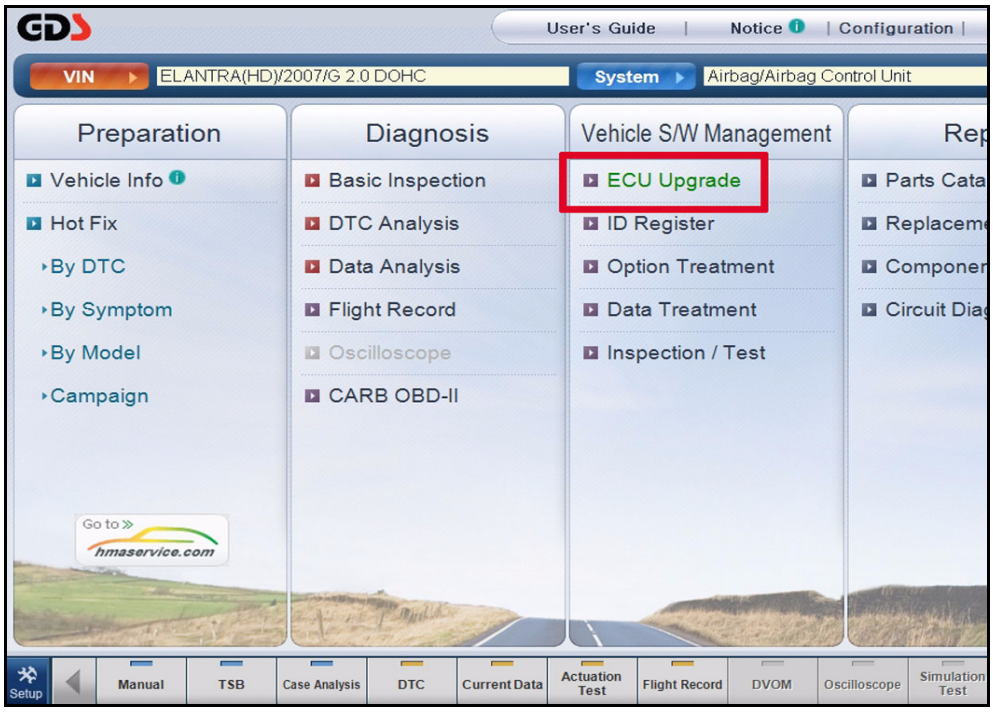
6. Select **All Systems** from the below screen.



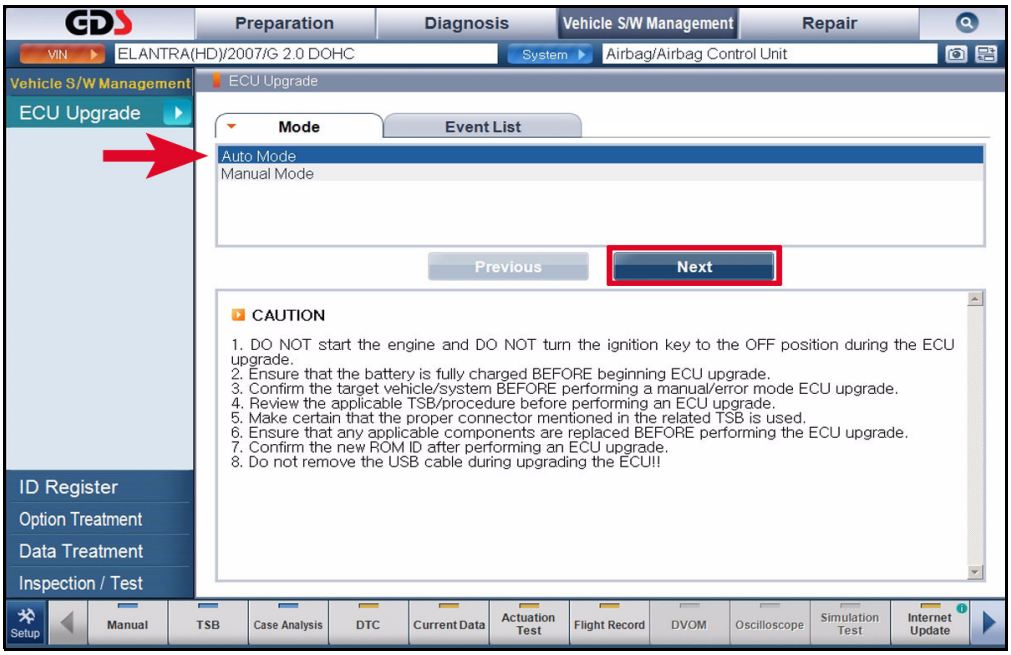
7. Select the **OK** button at the bottom of the screen.



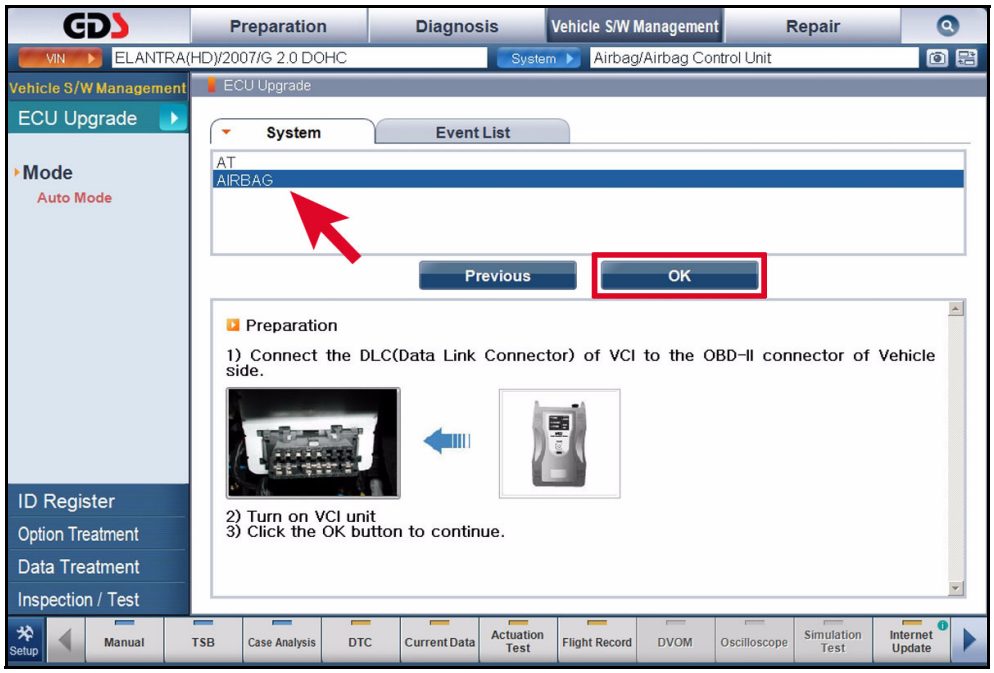
8. Press the **ECU Upgrade** button on the following screen:



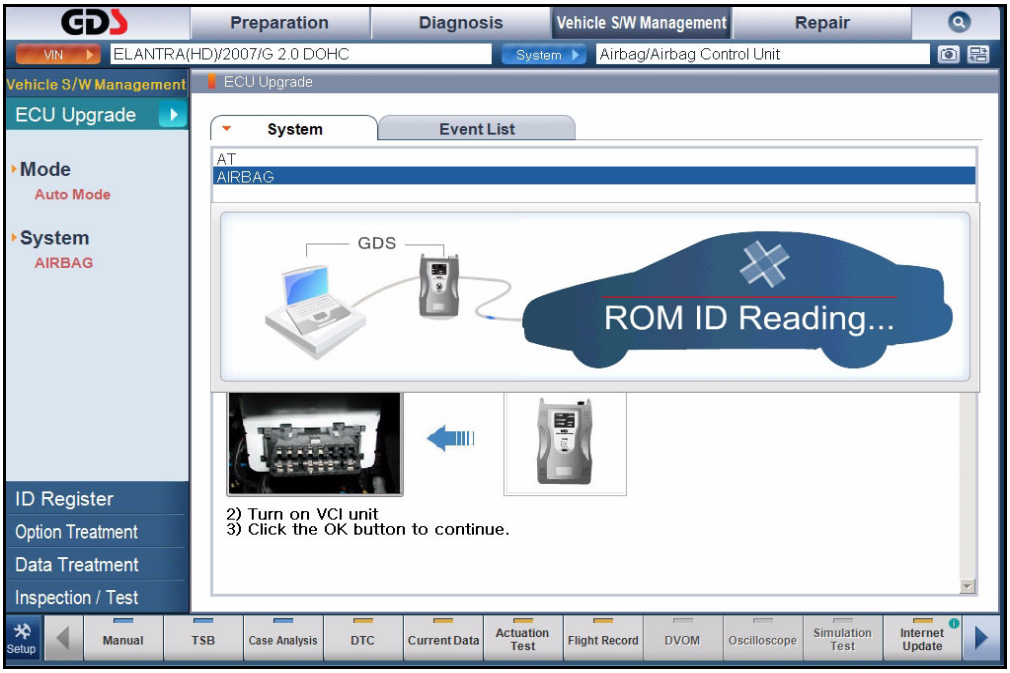
9. In the ECU Upgrade screen select **AUTO MODE** then the **NEXT** button



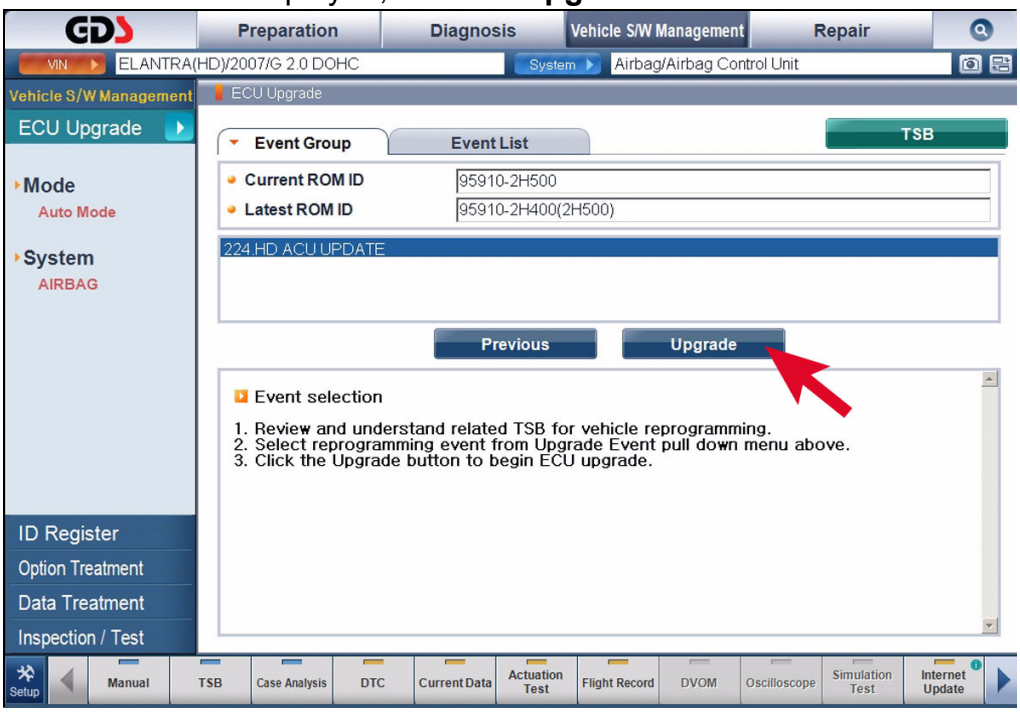
10. In the screen below select **AIRBAG** then the **OK** button.



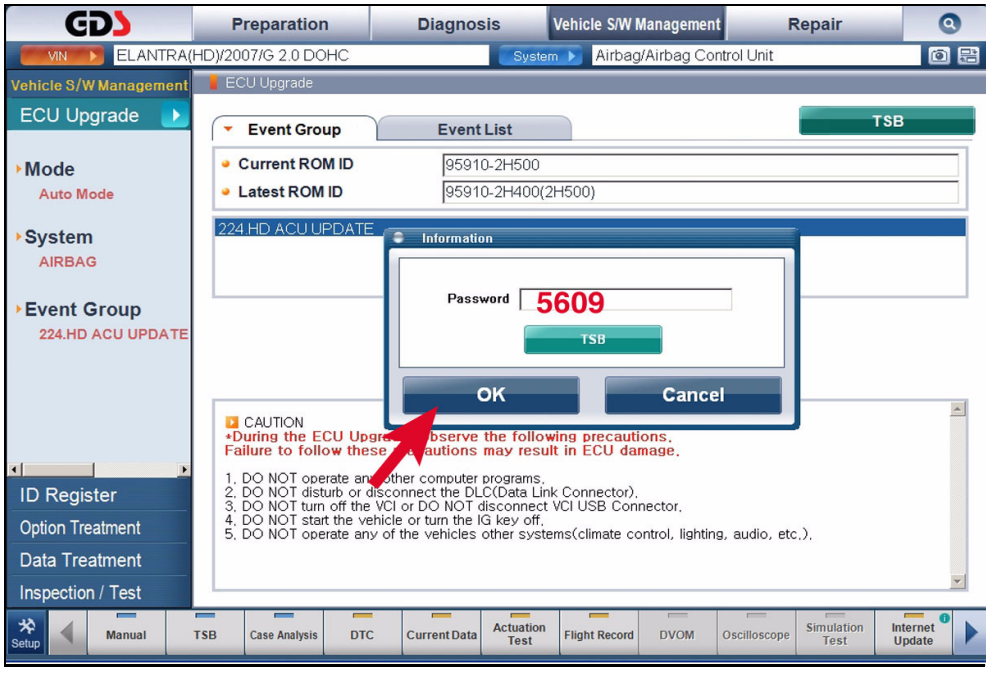
The following screen appears as GDS is reading the CURRENT ROM ID.



11. After the ROM ID is displayed, click the **Upgrade** button.

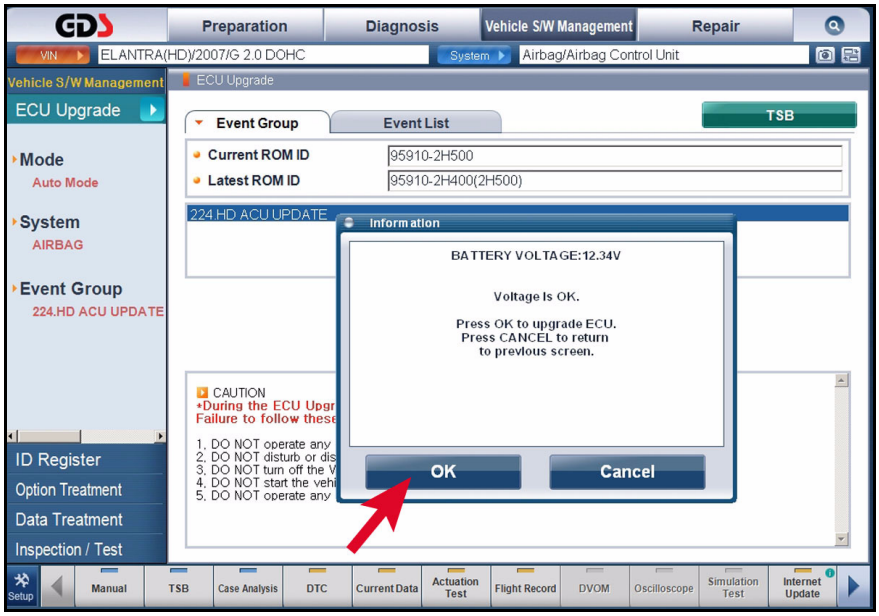


12. At the screen below, enter "**5609**" as the password for the ACU upgrade and then click **OK**.

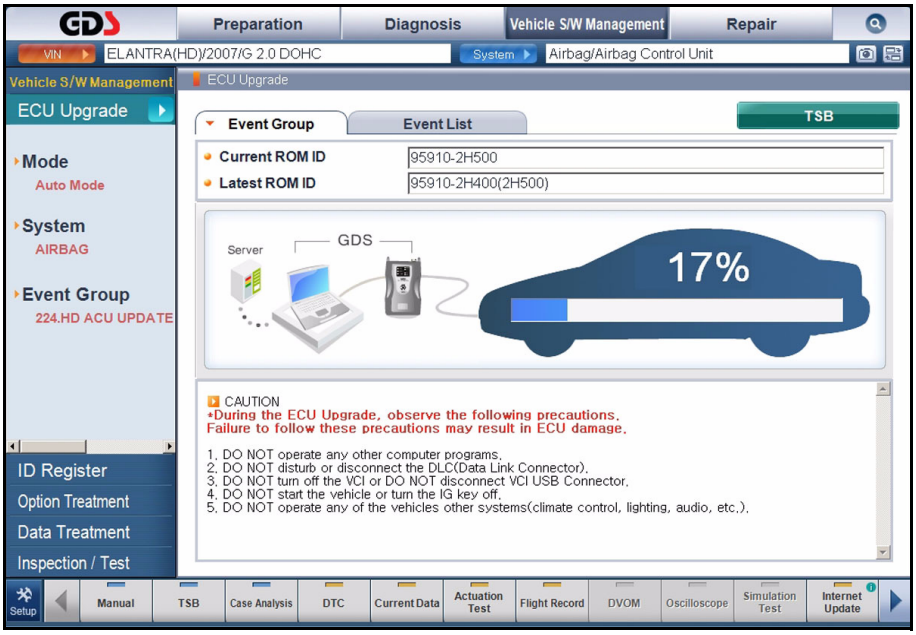


13. The battery voltage is verified to make sure it is at least 12 volts to ensure reliable update results. Click **OK** if the results indicate the voltage is OK.

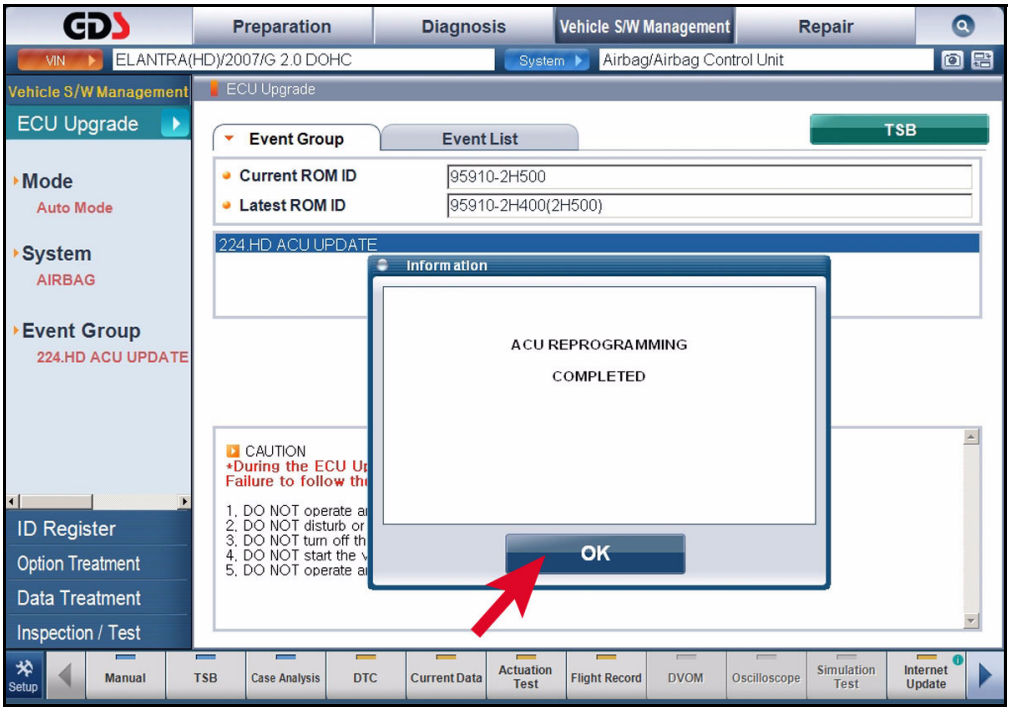
NOTE: If voltage is below 12 volts, click Cancel and then run the engine for several minutes to ensure an adequate battery charge state for reliable update results.



14. Reprogramming of the ACU will begin starting with the screen below and gradually showing the progress on the bar.



15. Update will occur until 100% is reached on the bar graph. After the **ACU REPROGRAMMING COMPLETED** screen appears, click the **OK** button.



16. Check that no incidental Diagnostic Trouble Codes (DTC) have been created by the reprogramming and, if there are, that they don't return after being cleared. If they returned after being cleared, follow the diagnostic directions for that DTC.

17. Log GDS off and remove all GDS cables from the vehicle. Turn off the ignition for at least 10 seconds.

18. Start the engine and confirm correct operation of the SRS system.

CAMPAIGN CLAIM INFORMATION:

Campaign 099:

Vinyl Cover Attachment (July 14, 2006 to November 1, 2008)

OP CODE	OPERATION	OP TIME
11C020R0	Vinyl Cover Attachment	0.3 M/H

Campaign 100:

ACU Reprogramming (July 14, 2006 to August 29, 2007.

OP CODE	OPERATION	OP TIME
11C012R0	ACU Reprogramming	0.2 M/H

NOTE: Submit claim using the Campaign Claim Entry Screen.